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L46 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:594995 HCAPLUS
 DOCUMENT NUMBER: 137:151106
 TITLE: Fibronectin or fibrinogen binding proteins and iron-restricted induced genes of Streptococcus suis and their use in diagnosis and vaccination against Streptococcal infections
 INVENTOR(S): Smith, Hilda Elizabeth
 PATENT ASSIGNEE(S): Id-Lelystad, Instituut Voor Dierhouderij En Diergezondheid B.V., Neth.
 SOURCE: PCT Int. Appl., 108 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002061070	A2	20020808	WO 2002-NL73	20020131
WO 2002061070	A3	20030417		
WO 2002061070	C1	20031106		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2436530	AA	20020808	CA 2002-2436530	20020131
EP 1368373	A2	20031210	EP 2002-711531	20020131
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004528826	T2	20040924	JP 2002-561627	20020131
US 2004096973	A1	20040520	US 2003-632117	20030731
PRIORITY APPLN. INFO.:			EP 2001-200419	A 20010202
			WO 2002-NL73	W 20020131

AB The invention relates to the field of diagnosis of and vaccination against Streptococcal infections and to the detection of virulence markers of Streptococci. The invention provides a method for modulating virulence of a Streptococcus comprising modifying a genomic fragment of said Streptococcus wherein said genomic fragment comprises at least a functional part of a fragment identifiable by hybridization in Streptococcus suis to a nucleic acid or fragment thereof. The virulence genes of the present invention include iron-restricted induced (iri) genes and in vivo selected (ivs) genes of Streptococcus suis infected pigs. In a preferred embodiment the said gene encodes a fibronectin/fibrinogen binding protein (FBPS). Eighteen unique iron-restricted induced genes and 22 unique in vivo selected genes of S. suis were found in piglets. FBPS gene was cloned, the protein was purified and shown to bind human fibronectin and fibrinogen.

L46 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2002:364057 HCAPLUS
 DOCUMENT NUMBER: 136:351405

TITLE: Protein and DNA sequences of virulence related proteins of Streptococcus suis and uses as vaccine
 INVENTOR(S): **Smith, Hilda Elizabeth**
 PATENT ASSIGNEE(S): Id-Lelystad, Instituut Voor Dierhouderij En Diergezondheid B.V., Neth.
 SOURCE: Eur. Pat. Appl., 41 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1205552	A1	20020515	EP 2000-203947	20001109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CA 2428278	AA	20020516	CA 2001-2428278	20011106
WO 2002038597	A2	20020516	WO 2001-NL805	20011106
WO 2002038597	A3	20020808		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002024207	A5	20020521	AU 2002-24207	20011106
EP 1334196	A2	20030813	EP 2001-993615	20011106
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004009192	A1	20040115	US 2003-435654	20030509
PRIORITY APPLN. INFO.:			EP 2000-203947	A 20001109
			WO 2001-NL805	W 20011106
AB The present invention relates to the field of diagnosis of and vaccination against Streptococcal infections and sequences of the virulence markers as well as the detection of virulence markers of streptococcus suis. The invention provides a method for modulating virulence of a Streptococcus comprising modifying a genomic fragment of said Streptococcus wherein said genomic fragment comprises at least a functional part of a fragment identifiable by hybridization in Streptococcus suis to a nucleic acid or fragment disclosed in this invention. The invention also relates to vectors comprising the disclosed DNA sequences, host cell containing the vectors, antibodies against the proteins encoded by the DNA sequences, and vaccine comprising the disclosed proteins.				
REFERENCE COUNT:		7	THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT	

L46 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:84998 HCAPLUS

DOCUMENT NUMBER: 132:147623

TITLE: Sequences of Streptococcus suis capsular (cps) gene cluster, and uses thereof in vaccines and diagnostic tests

INVENTOR(S): **Smith, Hilda Elizabeth**

PATENT ASSIGNEE(S): Stichting Dienst Landbouwkundig Onderzoek, Neth.

SOURCE: PCT Int. Appl., 144 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000005378	A2	20000203	WO 1999-NL460	19990719
WO 2000005378	A3	20000615		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2341268	AA	20000203	CA 1999-2341268	19990719
AU 9950709	A1	20000214	AU 1999-50709	19990719
EP 1098980	A2	20010516	EP 1999-935176	19990719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002055168	A1	20020509	US 2001-767041	20010122
PRIORITY APPLN. INFO.:				
			EP 1998-202465	A 19980722
			EP 1998-202467	A 19980722
			WO 1999-NL460	W 19990719
AB The invention provides an isolated or recombinant nucleic acid encoding a capsular (cps) gene cluster of Streptococcus suis or a gene or gene fragment derived thereof. Most of the genes belong to a single transcriptional unit, and they and the enzymes and proteins which they encode act in concert to provide the capsule with the relevant polysaccharides. Thus, the invention provides cps genes and proteins involved in the regulation (cpsA), chain length determination (cpsB, cpsC), export (cpsC), and biosynthesis (cpsE, cpsF, cpsG, cpsH, cpsJ, cpsK) of capsular polysaccharides. The invention further relates to Streptococcus suis infections of pigs, to vaccines directed against those infections and to tests for diagnosing Streptococcus suis infections. The invention also provides a nucleic acid probe or primer allowing species or serotype specific detection of Streptococcus suis.				

L46 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:95578 HCAPLUS
 DOCUMENT NUMBER: 118:95578
 TITLE: DNA sequences for discrimination between virulent and nonvirulent Streptococcus suis type II and for preparation of vaccines
 INVENTOR(S): **Smith, Hilda Elizabeth**; Vecht, Uri
 PATENT ASSIGNEE(S): Centraal Diergeneeskundig Instituut, Neth.
 SOURCE: PCT Int. Appl., 91 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9216630	A1	19921001	WO 1992-NL54	19920319

W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP,
KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US

RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN,
GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG

NL 9100510	A	19921016	NL 1991-510	19910321
CA 2105057	AA	19920922	CA 1992-2105057	19920319
CA 2105057	C	20000502		
AU 9215464	A1	19921021	AU 1992-15464	19920319
AU 659637	B2	19950525		
EP 575497	A1	19931229	EP 1992-908242	19920319
EP 575497	B1	19961002		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 06505390	T2	19940623	JP 1992-507787	19920319
JP 2776633	B2	19980716		
AT 143693	E	19961015	AT 1992-908242	19920319
ES 2094907	T3	19970201	ES 1992-908242	19920319
CN 1065490	A	19921021	CN 1992-101913	19920321
CN 1055500	B	20000816		
US 5610011	A	19970311	US 1993-119125	19930920

PRIORITY APPLN. INFO.: NL 1991-510 A 19910321
WO 1992-NL54 A 19920319

AB A gene for a 90-120 kDa extracellular protein factor (I) or a higher mol. weight protein containing I, and a gene for a 135-136 kDa muramidase-released protein are cloned from pathogenic and/or non-pathogenic *Streptococcus suis* type II. The DNA sequences or the antibodies to the proteins can be used for detection of pathogenic *S. suis* by PCR or immunoassay, and the proteins can be used as vaccines to protect mammals including swine and human from infection by *Streptococcus suis* type II. Cloning procedures, preparation of poly- and monoclonal antibodies to the proteins for ELISA, and oligonucleotide probes for PCR were also disclosed.